

l4_tdgrou (TMYthWewMp- SUZDP66DFwHEyftS9LnhEZpEX)

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Let $v12_vectsp_1 : \iota \Rightarrow o$ be given. Let $k1_vectsp_1 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_rlvect_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $l1_algstr_0 : \iota \Rightarrow o$ be given. Let $k1_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v8_algstr_0 : \iota \Rightarrow o$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $l2_struct_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 (u1_struct_0 k1_vectsp_1)) \Rightarrow ((k3_rlvect_1 k1_vectsp_1 X0 X0 = k4_struct_0 k1_vectsp_1) \Rightarrow (X0 = k4_struct_0 k1_vectsp_1)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v2_rlvect_1 X0) \wedge (l1_algstr_0 X0)) \wedge ((m1_subset_1 X1 (u1_struct_0 X0)) \wedge (m1_subset_1 X2 (u1_struct_0 X0)))) \Rightarrow (k3_rlvect_1 X0 X1 X2 = k1_algstr_0 X0 X1 X2) \quad (2)$$

Assume the following.

$$(v8_algstr_0 k1_vectsp_1) \wedge ((v13_algstr_0 k1_vectsp_1) \wedge ((v2_rlvect_1 k1_vectsp_1) \wedge ((v3_rlvect_1 k1_vectsp_1) \wedge (v4_rlvect_1 k1_vectsp_1)))) \quad (3)$$

Assume the following.

$$(\neg v2_struct_0 k1_vectsp_1) \wedge (v8_algstr_0 k1_vectsp_1) \quad (4)$$

Assume the following.

$$\forall X0.(l2_algstr_0 X0) \Rightarrow ((l2_struct_0 X0) \wedge (l1_algstr_0 X0)) \quad (5)$$

Assume the following.

$$(v8_algstr_0 k1_vectsp_1) \wedge (l2_algstr_0 k1_vectsp_1) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow ((v12_vectsp_1 \\ X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow ((k1_algstr_0 \\ X0 X1 X1 = k4_struct_0 X0) \Rightarrow (X1 = k4_struct_0 X0)))) \end{aligned} \quad (7)$$

Theorem 1 $v12_vectsp_1 k1_vectsp_1$.